

Manufacturer: **HOWARD JOHNSON'S ENTERPRISES, INC.**
700 W. Virginia Street, #222
Milwaukee, WI 53204-1548
Emergency Phone: (414) 276-4656

**MATERIAL SAFETY
DATA SHEET**

**** SECTION 1: PRODUCT IDENTIFICATION ****

Product Name: Howard Johnson's ZERO ICE MELTER

Chemical Name: Mixture

Shipping Information: Not regulated by US DOT for all modes of transportation within the US.

**** SECTION 2: HAZARDOUS INGREDIENTS ****

<u>Hazardous Ingredients</u>	<u>CAS Registry Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>SARA 313 Reportable</u>
Potassium chloride	7447-40-7	not established	not established	no
Sodium chloride	7647-14-5	not established	not established	no

**** SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES ****

Physical Form:	Granular solid	Bulk Density:	approx 95 pounds/cubic foot
pH:	Not applicable	Refractive Index:	Not applicable
Boiling Point:	Decomposes	Freezing Point:	Not applicable
Solubility in Water:	Soluble	Viscosity:	Free-flowing granular solid
Vapor Pressure:	Not determined	Vapor Density:	Not determined
% Volatile:	Not determined	Evaporation Rate:	Not determined
Appearance & Odor:	White to off-white granules, odorless.		

**** SECTION 4: FIRE AND EXPLOSION HAZARD DATA ****

Flash Point (°F):	None - not flammable	Flash Point Method:	Not applicable
Autoignition Temp (°F):	Not applicable	Burning Rate:	Not applicable
Explosive Limits:	Upper Limit (UEL): Not applicable	Lower Limit (LEL):	Not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: None.

Unusual Fire or Explosion Hazards: None.

**** SECTION 5: HEALTH HAZARD DATA ****

Primary Routes of Entry: Inhalation, ingestion, skin contact

Signs and Symptoms of Over-Exposure:

- Eye Contact: Acute: Mild, transient irritation. Chronic: None reported.
- Skin Contact: Acute: May cause slight irritation on prolonged contact. Chronic: None reported.
- Inhalation: Acute: Excessive inhalation of dust may be irritating. Chronic: None reported.
- Ingestion: Acute: Ingestion of large quantities may cause gastrointestinal distress, nausea and vomiting.
Chronic: None reported.

EMERGENCY FIRST AID PROCEDURES:

- Eye Contact: Hold eyelids open and flush eyes with large amounts of water.
- Skin Contact: Wash skin with soap and water.
- Inhalation: Remove person to fresh air.
- Ingestion: Give person large quantities of water. If irritation persists, obtain medical attention.

Medical Conditions Aggravated by Exposure: Existing skin irritation, cuts or scrapes may be aggravated by contact.

Target Organs: None identified.

Carcinogens: Not listed as a carcinogen.

***** SECTION 6: REACTIVITY DATA *****

Stability: Stable

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: Solution can be corrosive to some metals.

Conditions to avoid: None.

Hazardous Decomposition Products: None.

***** SECTION 7: ACCIDENTAL RELEASE PROCEDURES *****

Large Spill or Leak Procedures: No special precautions needed. Sweep or scoop up spilled material and place in a closed, labeled container for use.

Small Spill or Leak Procedures: Sweep up spilled material for use according to label directions.

Waste Disposal Methods: Spilled material should be collected for use, or dispose in regular municipal trash.

***** SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION *****

Engineering Controls - Ventilation: This product is designed for outdoor use only, and ventilation is not normally required. Local exhaust may be necessary when handling this product in an enclosed area.

Administrative Controls: Follow all precautions and directions for use on the product label.

Protective Clothing/Equipment: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Respiratory Protection: For normal handling and use conditions, a respirator is not required. For excessively dusty conditions, use a respirator approved for pesticides by MSHA/NIOSH. See OSHA regulations in 29CFR 1910.134 before using any respirator or dust mask.

Eye Protection: Good safety practices suggest the use of goggles to prevent contact with eyes.

Hand Protection: Good safety practices suggest the use of rubber, leather or canvas gloves.

Skin Protection: Wear long-sleeved shirt and long trousers to reduce contact with skin.

Safety Stations: Clean water should be available to flush eyes and/or skin in case of accidental contact.

**** SECTION 9: HANDLING AND STORAGE PRECAUTIONS ****

Handling Precautions: Do not take internally. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Storage Requirements: Store in a dry area, away from food or feed, and out of reach of children, pets and domestic animals. Keep containers tightly closed when not in use.

Update: 11/6/1997 by: Thomas J. Schmit, Regulatory Compliance Manager

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Section 1: Product Identification

Product Name: Howard Johnson's ZeroIce
Howard Johnson's Ice Melter
Howard Johnson's Below Zero
Howard Johnson's Zero Dust
Howard Johnson's ZeroIce Melter

EPA Reg. Number: Not Applicable

Chemical Name: Mixture

Shipping Information: Not Regulated by U.S. DOT for all modes of transportation within the US.

Section 2: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Registry Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>SARA 313 Reportable</u>
May contain one or more of the following ingredients:				
Calcium Chloride	10043-52-4	None	None	No
Magnesium Chloride hexahydrate	7791-18-6	None	None	No
Potassium Chloride	7447-40-7	None	None	No
Sodium Chloride	7647-14-5	None	None	No

Section 3: Physical and Chemical Properties

Physical Form:	Granular Solid	Bulk Density:	None established
pH:	Not Applicable	Refractive Index:	Not Applicable
Boiling Point:	Not Applicable	Freezing Point:	Not Applicable
Solubility in Water:	Completely Soluble	Viscosity:	Free-flowing granules
Vapor Pressure:	Not Determined	Vapor Density:	Not Determined
Percent Volatile:	Not Determined	Evaporation Rate:	Not Determined
Appearance and Odor:	White to off-white granules or flakes, odorless.		

Section 4: Fire and Explosion Hazard Data

Flash Point (°F):	Not Flammable	Flash Point Method	Not Applicable
Auto ignition Temp. (°F):	Not Applicable	Burning Rate	Not Applicable
Explosive Upper Limit (UEL):	Not Applicable	Lower Limit (LEL):	Not Applicable
Limits:			
Extinguishing Media:	Water, Carbon Dioxide, Dry Chemical or Foam		
Special Firefighting Procedures:	None		
Unusual Fire or Explosion Hazards:	None		

Section 5: Health Hazard Data

Primary Routes of Entry:	Inhalation, ingestion, skin contact
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Signs and Symptoms of Over-Exposure:

Eye Contact:	Acute:	Mild, reversible irritation to the eye. May cause transient corneal injury.	Chronic:	None reported
Skin Contact:	Acute:	May cause slight irritation on prolonged contact.	Chronic:	None reported
Inhalation:	Acute:	Excessive inhalation of dust may irritate nose, throat and upper respiratory tract.	Chronic:	None reported
Ingestion:	Acute:	Ingestion of large quantities may cause gastrointestinal distress, nausea and vomiting	Chronic:	None reported

Emergency First Aid Procedures:

Eye Contact:	Hold eyelids open and flush with lots of water for 15 minutes.
Skin Contact:	Wash skin with soap and water.
Inhalation:	Remove person to fresh air.
Ingestion:	Give person large quantities of water to drink. If irritation persists, seek medical attention. Low toxicity.
Medical conditions aggravated by exposure:	Existing skin irritation, cuts or scrapes may be aggravated by contact.
Target Organs:	None Identified
Carcinogens:	Not listed as a carcinogen

Section 6: Reactivity Data

Stability:	Stable
Chemical incompatibilities:	Solution may be corrosive to some metals
Conditions to avoid:	None
Hazardous Decomposition Products:	Hydrogen Chloride may form when heated
Hazardous Polymerization:	Will not occur

Section 7: Accidental Release Procedures

Large Spill or Leak Procedures:	No special precautions needed. Sweep or scoop up spilled material and place in a closed, labeled container for use.
Small Spill or Leak Procedures:	Sweep up spilled material for use as label directs.
Waste Disposal Methods:	Consult state or local environmental agency for disposal of waste. This product is normally not a regulated waste.

Section 8: Exposure Controls and Personal Protection

Engineering Controls – Ventilation:	This product is designed for outdoor use – ventilation is not normally required. Local exhaust may be needed when handling this product in an enclosed area.
Administrative Controls:	Follow all precautions and directions for use on product label.
Protective Clothing and Equipment:	Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.
Respiratory Protection:	For normal handling and use, a respirator is not required. For excessively dusty conditions, use a dust mask approved by MSHA/NIOSH. See OSHA regulations in 29 CFR § 1910.134 before using any respirator or dust mask.
Eye Protection:	Good safety practices suggest the use of goggles to prevent contact with eyes.
Hand Protection:	Good safety practices suggest the use of rubber, leather, or canvas gloves, to prevent skin contact.
Skin Protection:	Wear long-sleeved shirt and long trousers to reduce skin contact.
Safety Stations:	Clean water should be available to flush eyes and/or skin in case of accidental contact.

Section 9: Handling and Storage Precautions

Handling	Do not take internally. Avoid contact with eyes, skin or clothing.
Precautions:	Wash thoroughly after handling.
Storage	Store in a dry area, away from feed or food, and out of reach of
Requirements:	children, pets and domestic animals. Keep containers tightly closed when not in use.

Revision Date: April 4, 2002

By: Krest A. Lyddon, Director of Regulatory Affairs

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